

determination of *Succineas* is often far from certain. Similar shells were sent by Mr. C. Le Roy Wheeler, also from Cape May, exact locality not given.

My collection was made in August, 1898.

MOLLUSCA OF SOUTHERN KENTUCKY.¹

BY SADIE F. PRICE.

While engaged in botanical work, I have collected the following land and fresh-water shells, most of them in Warren county :

Polygyra plicata Say.

Polygyra divesta Gld. Scarce. Probably the first time this species has been listed so far east or north. Bowling Green.

Polygyra troostiana Lea.

Polygyra monodon Rack.

Polygyra palliata Say. Warren, Barren and Edmonson counties, and East Kentucky at Burnside.

Polygyra appressa Say. Common, Warren and Edmonson counties.

Polygyra inflecta Say. Common, Warren, Barren and Edmonson counties.

Polygyra rugeli Shuttl. Bowling Green.

Polygyra tridentata Say. Common, Warren, Edmonson and Barren counties.

Polygyra obstricta Say. Not common. Under rotten logs. Warren and Barren counties.

Polygyra albolabris Say. Warren, Barren and Edmonson counties.

Polygyra elevata Say. Common throughout South Kentucky.

Polygyra exoleta Binn. Very common.

Polygyra clausa Say.

Polygyra thyroides Say. Very abundant.

Polygyra thyroides bucculentus Gld. Bowling Green.

Polygyra downieana Bld. Rare. Warren and Edmonson counties.

Polygyra profunda Say. Scarce. Edmonson county.

Polygyra stenotrema Fér.

¹ I am indebted to Mr. C. T. Simpson, National Museum, for naming doubtful Unios.

Vallonia pulchella Mull. Rather common. Bowling Green.

Pyramidula perepectiva Say. Rather common throughout Southern Kentucky. Also found at Torrent, East Kentucky Mountain.

Pyramidula bryanti Harper. Only one specimen found. This Mr. Simpson says is considerably out of its usual range.

Pyramidula alternata Say. Barren, Edmonson and Warren counties, East Kentucky in the mountains.

Pyramidula alternata carinata Pils. Rather common. Bowling Green.

Pyramidula alternata mordax Binney. Not common. Bowling Green.

Strobila labyrinthica Say. Bowling Green.

Pupoides marginatus Say.

Bifidaria contracta Say.

Bifidaria armifera Say.

Bifidaria procera Gould.

Circinaria concava Say. Bowling Green, Brownsville.

Vitrea indentata Say. Warren county.

Zoitoides arboreus Say. Warren county.

Vitrea sculptilis Bld.

Omphalina levigata Pfr. Warren and Edmonson counties.

Gastrodonta ligera Say. Throughout southern Kentucky.

Gastrodonta acerra Lewis. Barren county.

Gastrodonta demissa Binn. Common.

Gastrodonta interna Say. Southern Kentucky and in the mountains of East Kentucky.

Bulimulus dealbatus Say. Common on rocky hillsides. Bowling Green.

Succinea arara Say.

Succinea ovalis Gld.

Succinea tottemiana Lea (?). On ferns in sink-hole. Bowling Green.

Heliodiscus lineatus Say. Bowling Green.

Helicina orbiculata Say.

Limnæa humilis Say. Near Green and Barren rivers, under damp moss.

Planorbis bicarinatus Say. Rather common.

Planorbis trivolvis Say. In ponds. Common.

Planorbis parvus Say. On rocks in ponds.

- Ancylus rivularis* Say. In ponds and rivers.
Physa gyrina Say. In springs and creeks throughout southern Kentucky and at Lexington.
Physa pomilia Con. In ponds. Not uncommon.
Physa heterostropha Say. Barren River.
Physa heterostropha, var. Creeks.
Campeloma obesum Lewis (?). Barren River.
Campeloma integrum Say. Barren River.
Campeloma ponderosum Say. Common.
Lioplax subcarinata Say.
Pomutiopsis lapidaria Say. Bank of Barren River.
Pleurocera filum Lea. Very common.
Pleurocera sycamorensis Lea.
Pleurocera undulatum Say.
Lithasia planispira Anthony.
Lithasia nuclea Lea.
Lithasia undosa Anth.
Lithasia obovata Say.
Goniobasis curvilabris Anth.
Goniobasis curvilabris, var. Rather common.
Goniobasis abbreviata Lea.
Goniobasis curreyana Lea. Common.
Goniobasis costifera Hald. Green and Barren Rivers.
Goniobasis costifera, var.
Goniobasis vicina Anth. Warren county.
Goniobasis athleta Anth. Barren county.
Goniobasis depygis Say.
Goniobasis nassula Con. var. Indian Creek.
Goniobasis infantulum Lea.
Goniobasis saffordii Lea. Indian Creek.
Goniobasis edgariana Lea. Creeks.
Goniobasis elegantula Anth. Barren River.
Goniobasis paupercula Lea.

UNIONIDÆ.

- Quadrula undulata* Barnes. Common in all streams.
Quadrula trigona Lea. Common.
Quadrula rubiginosa Lea.
Quadrula pyramidata Lea.

- Quadrula coccineu* Con.
Quadrula pustulosa Lea. Very common.
Quadrula obliqua Lam.
Quadrula verrucosa Barnes.
Quadrula globata Lea.
Quadrula lachrymosa Lea.
Quadrula plicata Say.
Quadrula cooperiana Lea.
Quadrula heros Say. Barren county.
Quadrula metanerra Raf.
Quadrula cylindrica Say,
Quadrula solida Lea.
Plagiola elegans Lea.
Plagiola securis Lea.
Plagiola donaciformis Lea.
Lampsilis ventricosus Bar. Barren River.
Lampsilis multiradiatus Lea.
Lampsilis ligamentinus Lam. Very common.
Lampsilis ligamentinus Lam. var.
Lampsilis gracilis Barnes.
Lampsilis anodontooides Lea. Ohio, Green and Barren Rivers.
Lampsilis rectus Lam.
Lampsilis canberlandicus Lea.
Lampsilis luteolus Lam. *L. lieuosus* Con.
Lampsilis texasensis Lea.
Lampsilis ovatus Say. *L. obscurus* Lea.
Lampsilis regularis Lea.
Lampsilis alatus Lea. Common.
Lampsilis iris Lea. *Lampsilis perdix* Lea.
Lampsilis subrostratus Say.
Lampsilis planicostatus Lea.
Lampsilis parvus Barnes.
Lampsilis caliginosus Con.
Lampsilis vumrumensis Lea.
Lampsilis nigerrimus Lea.
Lampsilis fatuus Lea.
Unio grandiferus Lea. Rather common.
Unio gibbosus Barnes. Both the purple and salmon-colored forms
are found in all streams.

- Obliquaria reflexa* Raf. Common.
Obliquaria lens Lea.
Ptychobranhus phaseolus Hild.
Strophitus edentulus Say.
Truncilla perplexa Lea.
Truncilla perplexa rangiana Lea.
Truncilla triquetra Raf.
Pleurobema clara Lam.
Pleurobema æsopus Green.
Pleurobema edgariana Lea.
Oboraria circulus Lea.
Tritigonia verrucosa Raf. *U. tuberculatus* Barnes.
Cyprogenia irrorata Lea. Common.
Micromya lapillus Lea.
Alasmodonta rugosa Barnes. Common.
Alasmodonta deltoidea Lea.
Alasmodonta minor Lea. Gasper River.
Alasmodonta truncata (Say) Wright.
Anadontoides ferussacianus Lea.
Anodonta imbecilis Say. Rivers and ponds near rivers.
Anodonta grandis Lea.
Anodonta grandis gigantea Lea.
Sphærium sulcatum Lam.
Sphærium fabale Prime. River and creeks.
Calyculina partumeia Say.
Calyculina transversa Say.
Pisidium virginicum Gm. Rivers and ponds.
Pisidium peraltum Sterki. Ponds.

NEW SPECIES OF JAPANESE LAND MOLLUSCA.

BY H. A. PILSBRY.

Eulota (Plectotropis) kiusiuensis n. sp.

Shell openly umbilicate, depressed, acutely carinate, light yellowish brown, slightly shining. Surface densely but lightly striate spirally, under a thin cuticle which bears rather wide-spaced, irregularly developed lamellæ ending in short shreds at the periphery, the